

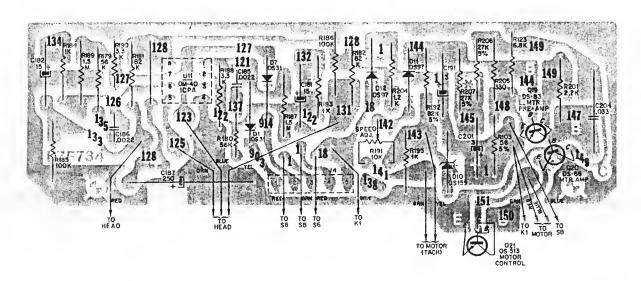
Supplement No. 9
Bulletin 6D-1976-1
60HFMT3

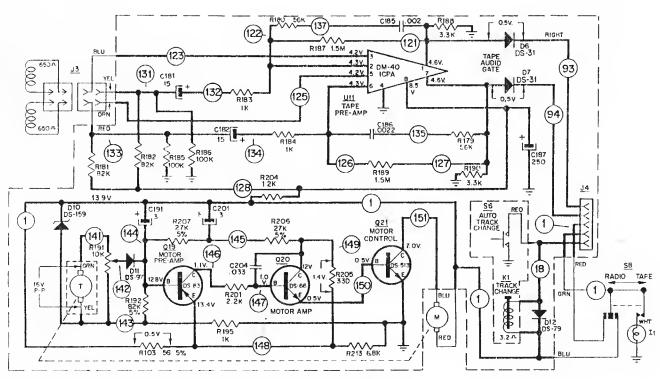
Date June 1976 Page F-13

9347740-1

SUBJECT: LATE CHANGES TO "CORPORATE" AM/FM/TAPE

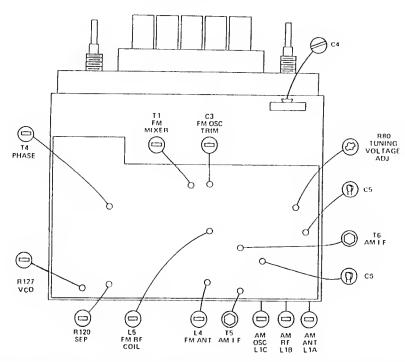
In addition to a return to inductive tuning in the FM oscillator, this supplement covers several minor changes and includes all current service information on the FM R/T used in H-body cars.





## ALIGNMENT

**60HFMT3** 



TURN VOLUME CONTROL UP, CONNECT AC VOLTMETER ACROSS SPEAKER LEADS, KEEP GENERATOR SIGNAL LOW TO MINIMIZE AGC ACTION,

### AM ALIGNMENT PROCEDURE

STEP	GEN. FREO. (MODULATED)	GENERATOR COUPLING	TUNER SETTING	ADJUST FOR PEAK	
1	262 KHz	THRU .1 MFD TO ANT. SOCKET	HI-END STOP	T5, T6 TOP & BOTTOM	
2	MEASURE DEPTH OF A,M. OSC. CORE: SHOULD BE 1 3/8" (3,5CM)				
3	1615 KHz	THRU 82 PF TO ANT, SOCKET	HI-END STOP	OSCILLATOR TRIMMER C6	
4	1400 KHz	THRU 82 PF TO ANT. SOCKET	1400	ANTENNA & RF TRIMMERS C4, C5	
5	600 KHz	THRU 82 PF TO ANT. SOCKET	600	ANTENNA & RF CORES: L1A, L1B	

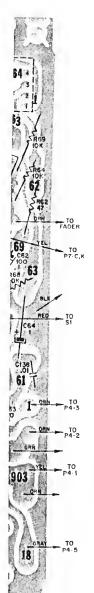
#### **FM ALIGNMENT PROCEDURE**

IMPORTANT: FIRST MAKE CERTAIN A. M. IS OPERATING PROPERLY; THE A. M. OSCILLATOR CONTROLS FM TUNING.

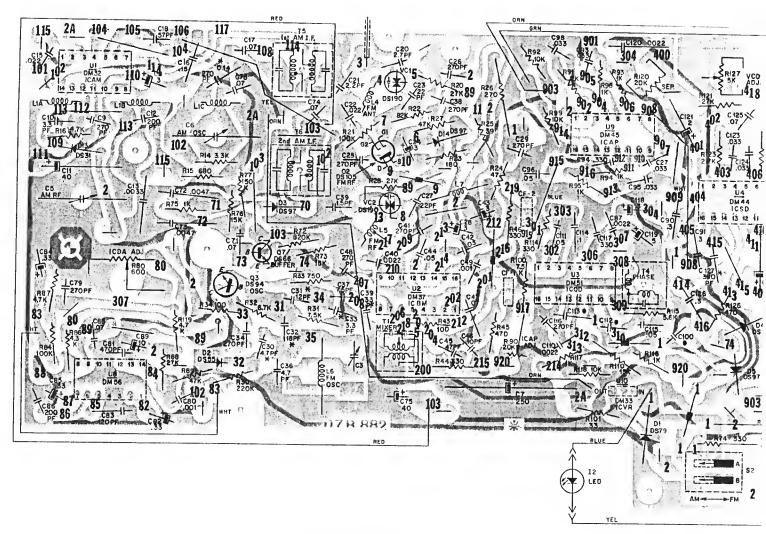
1			HI-END STOP	ADJUST TUNING VOLTAGE POT TO OBTAIN 7.3 VOLTS AT ICDA PIN 9. REPLACE BOTTOM COVER.
2	108 MHz	ANT. SOCKET	108	OSC. & RF TRIMMERS
3	88 MHz	ANT. SOCKET	88	OSC., RF & ANT. COILS. IF RF COIL DOES NOT PEAK, ADJ. RF TRIMMER UNTIL IT DOES. THEN RE-PEAK OSC. TRIMMER & COIL.
4	99 MHz	ANT, SOCKET	99 .	MIXER TRANSFORMER PHASE TRANSFORMER

#### STEREO ALIGNMENT PROCEDURE

- WITH WEAK STEREO SIGNAL, ADJUST VCO POT FOR STEREO LIGHT.
- WITH STRONG STEREO SIGNAL, ADJUST VCO AND SEPARATION FOR MAXIMUM SEPARATION.



# SERVICE AIDS 60HFMT3



MAIN BOARD (Copper View)

U1	
DM-32	
ICAM	

PIN	VOLT	AGE
	FM	AM
1 2 3 4 5 6 7 8 9 10 11 12 13	4.3 6.8 6.9 4.3 0.25 .16 68 0 .75 .75 .75 .39 7.0	4.4 7 7 4.4 0.19 11.7 .68 0 0 .66 .66 .66 4.5 7.0

U2	
DM-37	
ICBM	

ICDIVI			
PIN	VOLTAGE		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1.9 1.9 0 1.1 12.3 12.3 12.3 3.3 1.7 1.7 0 7.7 7.6 *5.6 0 *2.7 7.7 4.5		

U3 DM-51 **ICQD** 

	PIN	VOLTAGE	
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1,9 1,9 1,9 0 0 5.6 3.8 5.3 5.3 5.3 13.8 3.5 *0 0,2 *2.8 0 4.6 *3.6	
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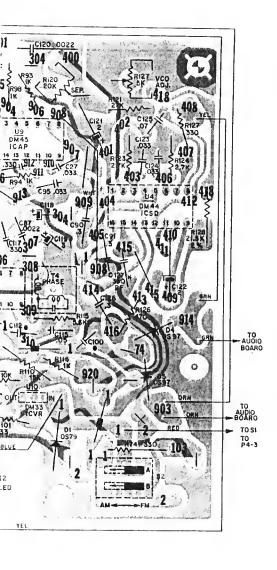
U4 DM-44 **ICSD** 

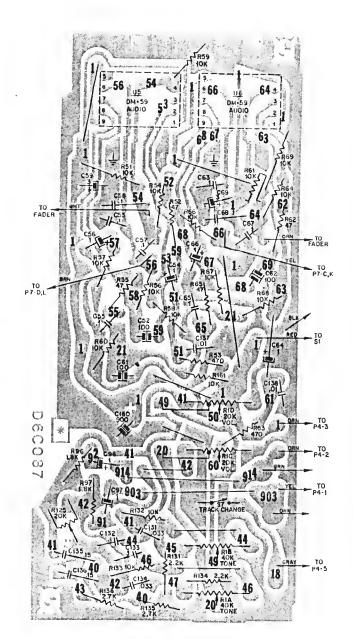
			1
PIN	VOLTAGE		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	2.2 5.3 3.1 2.3 2.2 3.0 12.4 0 1.8 1.6 1.8 1.8 2.8 13,9	0.6	"I2" ON

U5 & U6 DM-59 **ICBA** 

PIN	VOLTAGE
1 2 3 4 5 6 7 8 9	14 7 7 7 7 14 7 7 7

\* STRONG SIGNAL IN





AUDIO BOARD (Copper View)

### U5 & U6 DM-59 ICBA

PIN	VOLTAGE
1	14
2	7
3	7
4	7
5	14
6	7
7	7
8	7
9	14

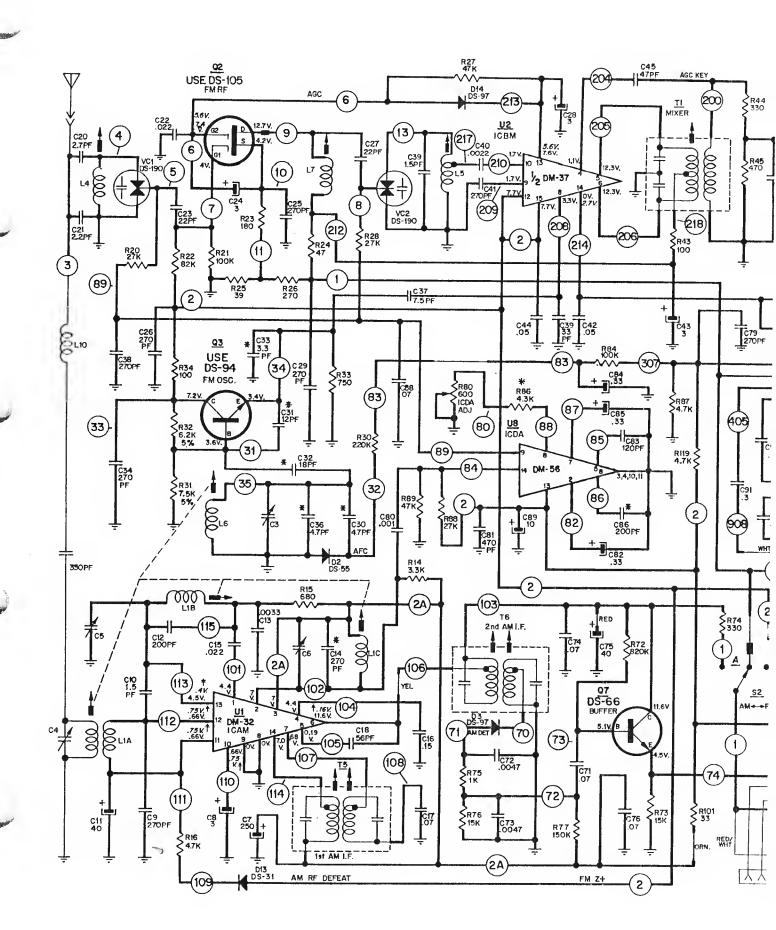
U8 DM-56 ICDA

	PIN	VOLTAGE	
Γ		108 MHz	88 MHz
	1 2 3 4 5 6 7 8 9 10 11 12 13	0 3.5 0 0.4 2.3 4.6 1.6 7.3 0 0 5.4 7.7	0 3.5 0 0 0.8 2.3 2.2 1.6 1.7 0 0 5.4 7.7

U9 DM-45 ICAP

PIN	VOLTAGE
1 2 3 4 5 6 7 8	8.4
2	.8
3	4.4
4	2.8
5	2.2
6	2.8
7	3.5
l 8 l	4.2
9	4.2
10	3.5
11	2.8
12	2
13	2.8
14	4.2
15	-
16	.1 *2 0
10	

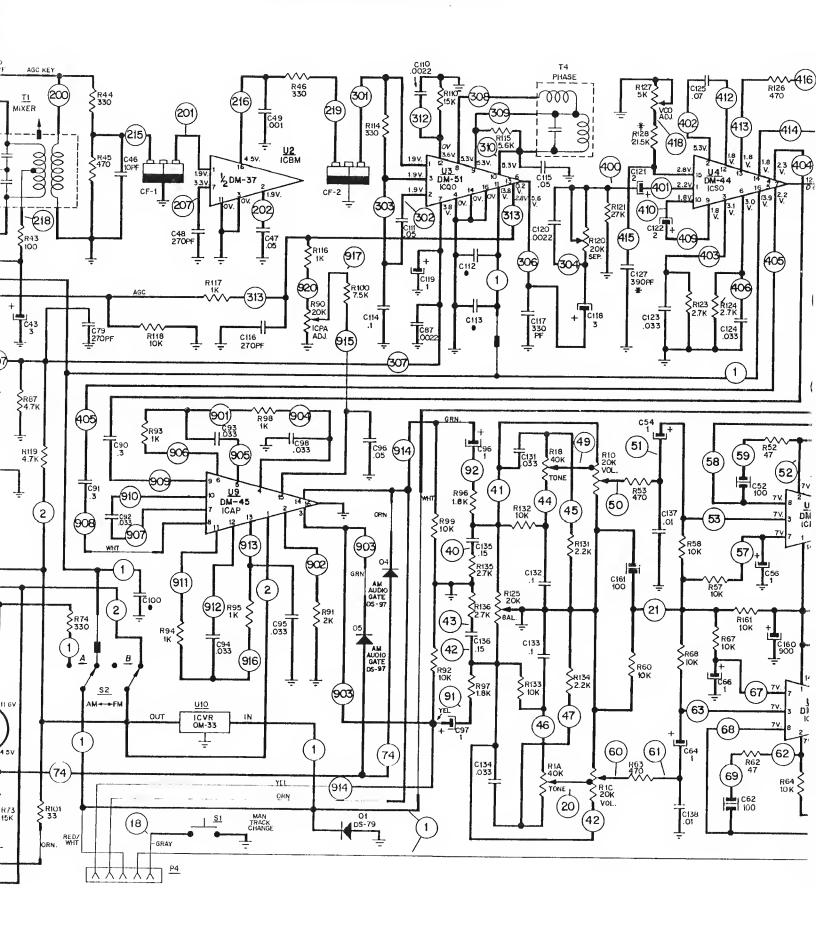
ALL CAPACITORS ARE SHOWN IN MFD AND ARE 75 VOLTS OR HIGHER EXCEPT ELECTROLYTICS AND THOSE NOTED BY AN \*



VEGA, ASTRE, N STARFIRE & S

CAUTION

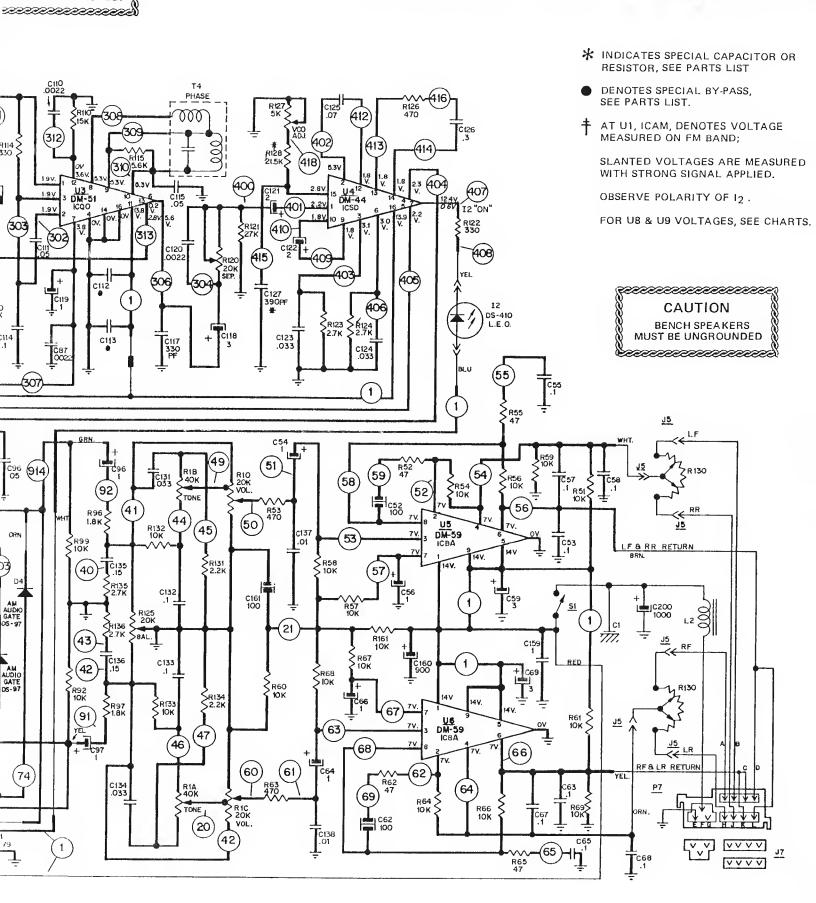
GROUND PROBE BEFORE MAKING
MEASUREMENTS ON IC. ALSO, DO
NOT SHORT IC PINS TOGETHER OR
TO GROUND OR IC MAY BE DESTROYED. 



THE PROPERTY OF THE PROPERTY O UTION **EFORE MAKING** ON IC. ALSO, DO IS TOGETHER OR MAY BE DESTROYED.

VEGA, ASTRE, MONZA, STARFIRE & SKYHAWK

### 60HFMT3 SCHEMATIC



## **PARTS LIST**

ILLUS. SERVICE NO. NO.	DESCRIPTION	ILLUS. NO.	SERVICE NO.	DESCRIPTION
D1DS-79 DIODE, SPIKE SUPPRESSION D2DS-55 DIODE, AFC D3DS-97 DIODE, AM DET D4DS-97 DIODE, AUDIO GATE D5DS-97 DIODE, AUDIO GATE D6DS-31 DIODE, TAPE AUDIO GATE D7DS-31 DIODE, TAPE AUDIO GATE D10DS-159 DIODE, ZENER, 7 VOLT D11DS-97 DIODE, ZENER, 7 VOLT D11DS-97 DIODE, SPIKE SUPPRESSION D13DS-31 DIODE, AM RF DEFEAT D14DS-97 DIODE, FM AGC O2DS-105 TRANSISTOR, FM RF AMP., MOS FET O3DS-94 TRANSISTOR, FM OSCILLATOR		C367897765 4.7 PF, 100V, N150 TUBULAR CERAMIC C437936359 3 MFD., 35 VOLT TANTALUM C529349947 100 MFD., NON-POLAR C547936365 1 MFD., 10 VOLT TANTALUM C567936365 1 MFD., 10 VOLT TANTALUM C597936359 3 MFD., 35 VOLT TANTALUM C619349947 100 MFD., 16 VOLT NON-POLAR C629349947 100 MFD., 16 VOLT NON-POLAR C647930782 1 MFD., 10 VOLT TANTALUM C667936365 1 MFD., 10V, TANTALUM C697936359 3 MFD., 35 VOLT TANTALUM C759340269 40 MFD., 16 VOLT NON-POLAR C827936748 33 MFD., 35V TANTALUM C847936748 33 MFD., 35V TANTALUM C857936748 33 MFD., 35V TANTALUM C857936748 33 MFD., 35V TANTALUM		
O19DS-83TF O20DS-66TF O21DS-513TF VC-1DS-190DI VC-2DS-190DI I2DS-410IN U1DM-32M0 U2DM-37M0 U3DM-51M1 U4DM-59M0 U5DM-59M0 U5DM-59M0 U6DM-59M0 U8*DM-56M1 U9DM-44M0 U10DM-33M0 U11DM-40M0	ODULE, ICBM, BALANCED MIXER ODULE, ICOD, QUAD. DET. ODULE, ICSD, STEREO DECODER ODULE, IC8A, 8RIDGE AUDIO ODULE, IC8A, BRIDGE AUDIO ODULE, ICBA, DIGITAL/ANALOG ODULE, ICAP, AUDIO PROCESSOR ODULE, ICVR, VOLTAGE REG. ODULE, TAPE PRE-AMP	C96 C97 C100 C112 C113 C119 C121 C122 C127 C160* C181 C182	7936365 1 M 7936365 1 M 7895980 FM 7895980 FM 7896282 FM 729634B 3 M 7313127 2 M 7313127 2 M 7313127 2 M 7313127 15 M 7313127 100	FD., 10 VOLT TANTALUM FD., 10 VOLT TANTALUM 8Y-PASS BY-PASS
CF-11223695 FM CF-21223695 FM L1*7898352 CC L27302543 CC L49348413 CC L59348414 CC L6*7897B7B CC L77934553 CH	DIL, FM RF DIL, FM OSCILLATOR HOKE, FM RF RANSFORMER, MIXER DIL, PHASE M 1ST I.F.	R80* R86* R90 R120 R125 R127 R128	9348417 CON 7897739 RES 9349022 CON 9349022 CON 9349022 CON 9349045 CON 9341039 RES 9348389 CON 9349371 CON	NTROL; VOLUME, TONE & SWITCH NTROL, ICDA CALIBRATION, 600 OHMS SISTOR, 4.3K, 2% NTROL, PROCESSOR ADJ., 20K NTROL, SEPARATJON, 20K NTROL, 8ALANCE, 200K NTROL, VCO ADJ., 5K SISTOR, 21.5K, 2% NTROL, FADER NTROL, MOTOR SPEED, 10K R & TAPE DECK
C39348419 T C49349556 T C57936524 T C67311368 T C77936628 29 C87296348 3 C117298555 44 C147896854 27 C247936359 3 C309341540 4 C317897766 12 C327897740 18	CAPACITORS  RIMMER, FM OSCILLATOR  RIMMER, AM ANTENNA  RIMMER, AM RF  RIMMER, AM OSCILLATOR  50 MFD, 16V, ELECTROLYTIC  MFD, 10V, ELECTROLYTIC  MFD., 6V, TANTALUM  70 PF, N220 DISC CERAMIC  MFD., 35 VOLT TANTALUM  7 PF,, 100V, N330 TUBE CERAMIC  2 PF, 100V, N330 TUBLAR CERAMIC  3 PF, 100V, N330 TUBLAR CERAMIC	J1 J5 J7 P7 I1	MISO 1223670 8RA 9340526 SOO 1223668 CON 1223684 CON 1223684 CON 1223684 CON 1223684 CON 1223684 CON 123684 STE	RTS BREAKDOWN  CELLANEOUS  ACKET PKG., 11/PIN CONNECTOR CKET, ANTENNA NNECTOR & LEAD ASM., 6/PIN, TO FADER) NNECTOR PKG., 3 PCS. FOR ENCH HOOK-UP NNECTOR ASM., INPUT 11/PIN MP, DIAL, NO. 216 REO IND. CKET & LEAD ASM., INCL. I1

<sup>\*</sup> PARTS FIRST USED IN THIS MODEL